



# EcoFill® Wx Blowing Insulation

## DESCRIPTION

EcoFill Wx blowing insulation is an unbonded, fiberglass blowing insulation with a high degree of recycled content, designed for weatherizing and retrofitting existing housing or new construction.

## APPLICATION

- Open blows in attics
- Dense-pack sidewalls using the drill-and fill-technique

## SPECIFICATION COMPLIANCE

- ASTM C764; Type I
- HH-I-1030B; Class B Certified
- Meets the Quality Standards of the State of California

## INDOOR AIR QUALITY

- UL Environment
  - GREENGUARD Certified
  - GREENGUARD Gold Certified
  - Validated to be Formaldehyde-Free
- EUCEB Certified

## FIBERGLASS AND MOLD

Fiberglass insulation will not sustain mold growth. However, mold can grow on almost any material when it becomes wet and contaminated. Carefully inspect any insulation that has been exposed to water. If it shows any sign of mold it must be discarded. If the material is wet but shows no evidence of mold, it should be dried rapidly and thoroughly. If it shows signs of facing degradation from wetting, it should be replaced.

CONTRACTOR: \_\_\_\_\_  
 JOB: \_\_\_\_\_  
 DATE: \_\_\_\_\_

## DOING MORE FOR THE WORLD WE LIVE IN.

All of our products are made from sustainable resources, such as recycled glass and sand. And we're proud to be putting glass bottles back to work rather than into landfills. Our products are made with a minimum of 50% recycled glass—totaling an average of 26 million bottles each month.



| TECHNICAL DATA   |                        |                                     |
|--|------------------------|-------------------------------------|
| Property (Unit)  | Test                   | Performance                         |
| Corrosion  | ASTM C764              | Pass                                |
| Critical Radiant Flux  | ASTM E970              | Greater than 0.12 W/cm <sup>2</sup> |
| Combustibility   | ASTM E136              | Non-combustible                     |
| Water Vapor Sorption (by weight)                               | ASTM C1104             | 5% maximum                          |
| Mold Growth  | ASTM C1338             | Pass                                |
| Surface Burning Characteristics (flame spread/smoke developed) | ASTM E84, CAN/ULC S102 | 25/50                               |

## Thermal Performance

The stated thermal resistance (R-value) is provided by installing the required number of bags per 1,000 square feet of net area, at not less than the labeled minimum thickness (per the manufacturer's instructions). Failure to install both the required number of bags and at least the minimum thickness will result in lower insulation R-values.

Field blending of this product with other loose fill insulation or application of this product in conjunction with adhesive or binder systems may affect its thermal performance and is not recommended by the manufacturer.

## Equipment Required

For pneumatic application only. This product is designed to be installed using appropriate machines with internally corrugated hose. The coils in the hose should not be less than 36" in diameter. The machine settings supplied by the manufacturer for this equipment should be used carefully in order to get optimum results. The equipment must be designed for fiberglass and has to have an effective shredding section, a controlled feed section and sufficient air volume to achieve the desired result. Feed rate of the material may be up to 60 lb./min.

| Open Attic Application                 |   |  |   |   |   |
|--|---|--|---|---|---|
| R-Value*                               | Min. Bags/<br>1,000 Sq. Ft.   | Max. Coverage/Bag                                | Net Min. Weight/<br>Sq. Ft.   | Initial Installed<br>Thickness                | Min. Settled<br>Thickness**                   |
| To obtain an insulation resistance of: | Number of bags per 1,000 square feet of net area should not be less than: | Contents of this bag should not cover more than: | Weight per square foot of installed insulation should not be less than: | Installed insulation should not be less than: | Installed insulation should not be less than: |
| R-11                                   | 5.3   | 188.4 sq. ft.                                    | 0.152 lb.   | 4"  | 4"  |
| R-13                                   | 6.4   | 156.6 sq. ft.                                    | 0.183 lb.   | 4¾"   | 4¾"   |
| R-19                                   | 9.4   | 106.6 sq. ft.                                    | 0.268 lb.   | 6¾"   | 6¾"   |
| R-22                                   | 10.9  | 91.4 sq. ft.                                     | 0.313 lb.   | 7¾"   | 7¾"   |
| R-26                                   | 13.2  | 75.9 sq. ft.                                     | 0.377 lb.   | 9½"   | 9½"   |
| R-30                                   | 15.3  | 65.5 sq. ft.                                     | 0.437 lb.   | 10¾"  | 10¾"  |
| R-38                                   | 19.9  | 50.2 sq. ft.                                     | 0.569 lb.   | 13"   | 13"   |
| R-44                                   | 23.4  | 42.7 sq. ft.                                     | 0.670 lb.   | 14¾"  | 14¾"  |
| R-49                                   | 26.3  | 38.0 sq. ft.                                     | 0.753 lb.   | 16¾"  | 16¾"  |
| R-60                                   | 33.3  | 30.1 sq. ft.                                     | 0.952 lb.   | 19¾"  | 19¾"  |

Bag Net Weight - Nominal 28.6 lb., Minimum 27.6 lb.

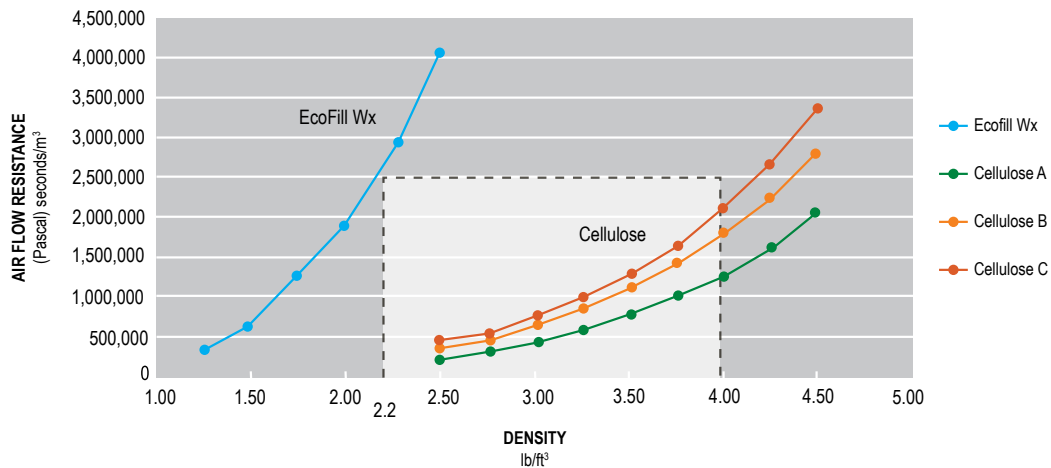
Coverage and installation data were determined using a Volu-Matic® III blowing machine in third gear with 13" gate opening, 2.5–3.0 PSI air pressure, 150' of 3" diameter internally-corrugated hose. Volu-Matic III is a registered trademark of CertainTeed Corporation.

\*"R" means resistance to heat flow. The higher the R-value, the greater the insulating power. To get the marked R-value, it is essential that this insulation be installed properly. If you do it yourself, get instructions and follow them carefully. Instructions do not come with this package.

\*\*Based on Third Party 10-year settling study, the predicted settlement over a 20-year period would be 1 percent or less. This amount of settling is thermally insignificant. Therefore, the installed and settled thicknesses are effectively the same.

| Cavity Wall Application - Dense Pack |              |                                    |         |   |  |   |
|--------------------------------------|--------------|------------------------------------|---------|---|--|---|
| Framing                              | Cavity Depth | R-Value*                           | Density | Bags/<br>1,000 Sq. Ft.  | Max.<br>Coverage/Bag                             | Net Min.<br>Weight/Sq. Ft.  |
|                                      |              | To obtain a thermal resistance of: |         | Number of bags per 1,000 square feet of net area should not be less than: | Contents of this bag should not cover more than: | Weight per square foot of installed insulation should not be less than: |
| 2" x 4"                              | 3.50"        | R-15                               | 2.2 PCF | 22.4  | 44.6 sq. ft.                                     | 0.624 lb.   |
| 2" x 6"                              | 5.50"        | R-23                               | 2.2 PCF | 35.3  | 28.4 sq. ft.                                     | 1.008 lb.   |
| 2" x 8"                              | 7.25"        | R-31                               | 2.2 PCF | 46.5  | 21.5 sq. ft.                                     | 1.329 lb.   |
| 2" x 10"                             | 9.25"        | R-39                               | 2.2 PCF | 59.3  | 16.9 sq. ft.                                     | 1.696 lb.   |

## AIR FLOW RESISTANCE VS. DENSITY



## CERTIFICATIONS



Check with your Knauf Insulation Territory Manager to ensure information is current.

The chemical and physical properties of this product represent average values determined in accordance with accepted test methods. The data is subject to normal manufacturing variations. The data is supplied as a technical service and is subject to change without notice. References to numerical flame spread ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions.

This product is covered by one or more U.S. and/or other patents.  
See patent [www.knaufnorthamerica.com/patents](http://www.knaufnorthamerica.com/patents)

Visit [knaufnorthamerica.com](http://knaufnorthamerica.com) to learn more.

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